BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : Improvements to Roads and Drains and Construction of Culverts at Saraipalya Colony and Others Area in ward No. 06, Byatarayanapura Sub Division

Pre Measurements

Job Code : 006-20-000163

BRUHATH BANGALORE MAHANAGARAPALIKE
YELAHANKA ZONE
PRE MEASUREMENTS

Name of work: Improvements to Roads and Drains and Construction of Culverts at Saraipalya Colony and Others Area in ward No. 06, Byatarayanapura Sub Division

Work Order No: BBMP/EE/BTP/WO/191/2019-20 dt: 16.01.2020
JOB NUMBER: 006-20-000163
Estimate Cost: 100.00 lakhs.
As No: AS/EE(BTP)/91/2019-20 Dt: 29.11.2019
Ts No :TS/ SE(YNK)/20/2019-20 dt : 07.01.2020
Name of Contractor : M/s Executive Engineer, KRIDL

Sl. No.	Description of work	Unit	Measurements No	L	B	D	Qty
1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 **P.No. 140/ Item No. 18.47 / PWD SR 2018-19**						
	Dismantling Existing fully damaged CC road	cum					
	ROAD		1	30.00	4.40	0.25	33.00
			1	30.00	4.40	0.25	33.00
			1	12.00	4.40	0.25	13.20
	Road		1	30.00	4.45	0.25	33.38
			1	30.00	4.45	0.25	33.38
			1	30.00	4.45	0.25	33.38
			1	12.00	4.45	0.25	13.35
	Road		1	28.00	4.50	0.25	32.00
	Road		1	30.00	4.60	0.25	35.05
			1	4.00	4.60	0.25	4.67
	Road		1	30.00	4.50	0.25	33.75
			1	6.00	4.50	0.25	6.75
							304.90

24/08/2020
Assistant Engineer
Ward No. 06

24/08/2020
Assistant Executive Engineer
Byatarayanapura Sub Division

2	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 143/ It No 19.1/ PWD SR 2018-19						
A	**For drain**	cum					
	Drain L/s Road ID W1825 colony main road		1	30.00	1.05	1.00	31.50
			1	30.00	1.05	1.00	31.50
			1	30.00	1.05	1.00	31.50
			1	30.00	1.05	1.00	31.50
			1	11.00	1.05	1.00	11.55
			1	30.00	1.05	1.00	31.50
			1	12.00	1.05	1.00	12.60

181.65

	1	30.00	1.05	1.00	31.50
	1	3.00	1.05	1.00	3.15
R/s Road ID W1825 colony main road	1	30.00	1.05	1.00	31.50
	1	30.00	1.05	1.00	31.50
	1	30.00	1.05	1.00	31.50
	1	30.00	1.05	1.00	31.50
	1	7.00	1.05	1.00	7.35
	1	30.00	1.05	1.00	31.50
	1	5.00	1.05	1.00	5.25
	1	16.00	1.05	1.00	16.80
	1	24.70	1.05	1.00	25.94
	1	16.50	1.05	1.00	17.33
	1	27.80	1.05	1.00	29.19
	1	30.00	1.05	1.00	31.50
	1	30.00	1.05	1.00	31.50
	1	30.00	1.05	1.00	31.50
	1	18.00	1.05	1.00	18.90
for drain to Road ID W1821 L/s	1	30.00	1.05	1.00	31.50
	1	10.00	1.05	1.00	10.50
for drain to Road ID W1821 L/s	1	30.00	1.05	1.00	31.50
	1	10.00	1.05	1.00	10.50
B For ROAD work - cross road-1	1	30.00	4.40	0.30	40.13
	1	30.00	4.40	0.30	40.13
	1	12.00	4.40	0.30	16.05
Saraipalya colony main road-2	1	30.00	4.45	0.25	33.38
	1	30.00	4.45	0.25	33.38
	1	30.00	4.45	0.25	33.38
	1	12.00	4.45	0.25	13.35
cross road-3	1	28.00	4.50	0.30	37.80
cross road-4	1	30.00	4.65	0.30	41.85
	1	4.00	4.65	0.30	5.58
cross road-5	1	30.00	4.50	0.30	40.50
	1	6.00	4.50	0.30	8.10
C For Culverts	1	3.60	2.00	1.00	7.20
	1	4.20	2.00	1.00	8.40
	1	3.70	2.00	1.00	7.40
	1	5.00	2.00	1.00	10.00

c/f FC

2

868.04

		1	5.60	2.00	1.00	11.20
		1	5.80	2.00	1.00	11.60
		1	4.40	2.00	1.00	8.80
		1	9.80	2.00	1.00	19.60
		1	2.00	2.00	1.00	4.00
D	Desilting of Drain	1	30.00	0.65	0.45	8.78
		1	30.00	0.65	0.45	8.78
		1	30.00	0.65	0.45	8.78
		1	30.00	0.70	0.45	9.45
		1	25.00	0.70	0.45	7.88
						1148.51

08/09/2020
Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

3 KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 20kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 **Page No. 222 / It No. 27.18/ PWD SR 2018-19**

A	**For drain**	cum				
	Drain L/s Road ID W1825 colony main road	1	30.00	1.05	0.15	4.73
		1	30.00	1.05	0.15	4.73
		1	30.00	1.05	0.15	4.73
		1	30.00	1.05	0.15	4.73
		1	11.00	1.05	0.15	1.73
		1	30.00	1.05	0.15	4.73
		1	12.00	1.05	0.15	1.89
		1	30.00	1.05	0.15	4.73
		1	3.00	1.05	0.15	0.47
	R/s Road ID W1825 colony main road	1	30.00	1.20	0.15	5.40
		1	30.00	1.20	0.15	5.40
		1	30.00	1.20	0.15	5.40
		1	30.00	1.20	0.15	5.40
		1	7.00	1.20	0.15	1.26
		1	30.00	1.20	0.15	5.40
		1	5.00	1.20	0.15	0.90
		1	16.00	1.20	0.15	2.88
		1	24.70	1.20	0.15	4.45
		1	16.50	1.20	0.15	2.97
		1	27.80	1.20	0.15	5.00

14/9/2020

76.93

	1	30.00	1.20	0.15	5.40
	1	30.00	1.20	0.15	5.40
	1	30.00	1.20	0.15	5.40
	1	18.00	1.20	0.15	3.24
for drain to Road ID W1821 L/s	1	30.00	1.05	0.15	4.73
	1	10.00	1.05	0.15	1.58
for drain to Road ID W1821 R/s	1	30.00	1.05	0.15	4.73
	1	10.00	1.05	0.15	1.58
For ROAD work - cross road-1	1	30.00	4.40	0.15	19.80
	1	30.00	4.40	0.15	19.80
	1	12.00	4.40	0.15	7.92
Saraipalya colony main road-2	1	30.00	4.45	0.15	20.03
	1	30.00	4.45	0.15	20.03
	1	30.00	4.45	0.15	20.03
	1	12.00	4.45	0.15	8.01
cross road-3	1	28.00	4.50	0.15	18.90
cross road-4	1	30.00	4.65	0.15	20.93
	1	4.00	4.65	0.15	2.79
cross road-5	1	30.00	4.50	0.15	20.25
	1	6.00	4.50	0.15	4.05
For Culverts	1	3.60	2.10	0.15	1.13
	1	4.20	2.10	0.15	1.32
	1	3.70	2.10	0.15	1.17
	1	5.00	2.10	0.15	1.58
	1	5.60	2.10	0.15	1.76
	1	5.80	2.10	0.15	1.83
	1	4.40	2.10	0.15	1.39
	1	9.80	2.10	0.15	3.09
	1	2.00	2.10	0.15	0.63

C/FC

14/9/20

228.50

4

Ramps-1		1	4.50	0.55	0.20		0.50
		1	5.00	0.60	0.15		0.45
		1	5.50	0.60	0.20		0.66
		1	3.00	0.55	0.15		0.25
							307.21

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

5 KSRRB M 1200-15.2: Plain / Reinforced cement concrete M20 with OPC Cement @ 320kgs, with 20mm and down size graded granite metal coars aggreagates @0.69 cum and fine aggreagates @ 0.46 cum, with superplastiser@ 3lts confirming to IS9103 -1999 Reaffirmed -2008, in open foundation complete as per drawing and technical specifications case-II, with batching plant transist mixer and concrete MORTH specification No. 1500, 1700 & 2100,/P No. 222/ Item No. 27.27/ PWD SR 2018-19

a **Culverts Coping**	cum	1	3.60	1.80	0.15		0.97
		1	4.20	1.80	0.15		1.13
		1	3.70	1.80	0.15		1.00
		1	5.00	1.80	0.15		1.35
		1	5.60	1.80	0.15		1.51
		1	5.80	1.80	0.15		1.57
		1	4.40	1.80	0.15		1.19
		1	9.80	1.80	0.15		2.65
		1	2.00	1.80	0.15		0.54
b For Existing drain bottom		1	30.00	0.70	0.15		3.15
		1	30.00	0.70	0.15		3.15
		1	15.00	0.70	0.15		1.58
		1	30.00	0.70	0.15		3.15
		1	25.00	0.70	0.15		2.63
							25.56

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

8 KSRRB M2200-6. **Providing T.M.T. steel reinforcement for R.C.C. work** including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500 **PWD SR 2018-19 P.No 229 It 28.8.2**

for RCC drain

10 mm dia main bars

Drain L/s Road ID W1825 colony main road	300	1	2.20		660.00
	300	1	2.20		660.00
	300	1	2.20		660.00
	300	1	2.20		660.00
	110	1	2.20		242.00
	300	1	2.20		660.00
	120	1	2.20		264.00

3806

	300	1	2.20	660.00
	30	1	2.20	66.00
R/s Road ID W1825 colony main road	300	1	2.20	660.00
	300	1	2.20	660.00
	300	1	2.20	660.00
	300	1	2.20	660.00
	70	1	2.20	154.00
	300	1	2.20	660.00
	50	1	2.20	110.00
	160	1	2.20	352.00
	247	1	2.20	543.40
	165	1	2.20	363.00
	278	1	2.20	611.60
	300	1	2.20	660.00
	300	1	2.20	660.00
	300	1	2.20	660.00
	180	1	2.20	396.00
for drain to Road ID W1821 L/s	300	1	2.20	660.00
	100	1	2.20	220.00
for drain to Road ID W1821 L/s	300	1	2.20	660.00
	100	1	2.20	220.00
			Total Length in Mtr	14102.00
			wt @ 0.62kg/mtr	8743.24

CB RC 20 Structure 8/10/2020

10296

b **8 mm dia distribution bars**

Drain L/s Road ID W1825 colony main road	19	30.00	570.00
	19	30.00	570.00
	19	30.00	570.00
	19	30.00	570.00
	19	11.00	209.00
	19	30.00	570.00
	19	12.00	228.00
	19	30.00	570.00
	19	3.00	57.00
R/s Road ID W1825 colony main road	19	30.00	570.00
	19	30.00	570.00
	19	30.00	570.00
	19	30.00	570.00
	19	7.00	133.00
	19	30.00	570.00
	19	5.00	95.00

CB RC 20 Structure 8/10/2020

8/10/2020

6992

	19	16.00			304.00
	19	24.70			469.30
	19	16.50			313.50
	19	27.80			528.20
	19	30.00			570.00
	19	30.00			570.00
	19	30.00			570.00
	19	18.00			342.00
	19				
for drain to Road ID W1821 L/s	19	30.00			570.00
	19	10.00			190.00
for drain to Road ID W1821 L/s	19	30.00			570.00
	19	10.00			190.00
				Total Length in Mtr	12179.00
				wt @ 0.39kg/mtr	4749.81
				Tota Wt in kgs	13493.05
				or Tonnes	13.49

Ltd to

8-10-2020

Assistant Engineer
Ward No. 06

8/10/2020

Assistant Executive Engineer
Byatarayanapura Sub Division

13 Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.4, PWD SR-2018-19)

Road -1	cum	1	30.00	0.60	0.80	14.40
		1	30.00	0.60	0.90	16.20
		1	30.00	0.65	0.90	17.55
		1	30.00	0.60	0.80	14.40
		1	25.00	0.60	0.85	12.75
Road -2		1	30.00	0.65	0.90	17.55
		1	30.00	0.60	0.85	15.30
		1	30.00	0.60	0.90	16.20
		1	30.00	0.60	0.90	16.20
		1	25.00	0.60	0.85	12.75
Road -3		1	30.00	0.65	0.90	17.55
		1	30.00	0.65	0.90	17.55
		1	30.00	0.60	0.90	16.20
		1	30.00	0.60	0.85	15.30
		1	25.00	0.65	0.90	14.63
						234.53

20/10/2020

Assistant Engineer
Ward No. 06

20/10/2020

Assistant Executive Engineer
Byatarayanapura Sub Division

14 **Providing and installing at site of work 63mm** (0.662) **PVC Pipes** of 6 kg / cm2 including cost of pipes and specials and labour including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete.

Road -1	Rmtr	1	30.00		30.00
		1	30.00		30.00
		1	30.00		30.00
		1	30.00		30.00
		1	25.00		25.00
Road -2		1	30.00		30.00
		1	30.00		30.00
		1	30.00		30.00
		1	30.00		30.00
		1	25.00		25.00
Road -3		1	30.00		30.00
		1	30.00		30.00
		1	30.00		30.00
		1	30.00		30.00
		1	25.00		25.00
					435.00

c/f FC

26/10/2020

26/10/2020

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P., Bengaluru-24